



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

International Patent Application of:

Tomohiro CHIBA

Application Number: 10/077,907

Filed: February 20, 2002

Title: STACKED-TYPE, MULTI-FLOW
HEAT EXCHANGERS

Examiner L. LEO

Group Art Unit 3743

*DO NOT 7-18-03
ENTER AF
13/B
7/23/03 (AF)*

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JUL 17 2003

TECHNOLOGY CENTER R3700

REQUEST FOR WITHDRAWAL OF FINALITY OF REJECTIONS
AND RESPONSIVE AMENDMENT UNDER 35 U.S.C. § 1.116

BOX AF

Commissioner of Patents
U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

AMENDMENTS

IN THE CLAIMS:

Please replace original claims 1 and 4 with replacement claims 1 and 4, as follows:

- C1*
1. (amended) A stacked-type, multi-flow heat exchanger comprising:
a plurality of heat transfer tubes, wherein each of said heat transfer tubes comprises:
a first tube plate;
a second tube plate connected to said first tube plate, wherein said first tube plate
and said second tube plate form a refrigerant path within said heat transfer tube; and
an inner fin having a wave shape, wherein said inner fin is positioned within said
refrigerant path and extends in a longitudinal direction along said refrigerant path;
a plurality of outer fins, wherein said plurality of outer fins and said plurality of heat
transfer tubes are stacked alternately; and
a plurality of projection portions formed on at least one of said first tube plates and on at
least one of said second tube plates, wherein said plurality of projection portions project into said
refrigerant path and extend in an oblique direction relative to said inner fin, said inner fin is